

**Free Radiator Site
Lyman, Spartanburg County, South Carolina
Initial Polrep**

I. HEADING

DATE: 04/15/04

FROM: Terrence Byrd OSC, U.S. EPA, Region IV
Emergency Response and Removal Branch

TO: Shane Hitchcock, ERRB/Branch Chief Region IV
Bob Bittinger RRC/Region IV
Jeff Thompson, SCDHEC

SUBJECT: Initial Polrep #1,

Period of Record: 04/14/04 through 04/17/04

Personnel on site:

EPA - 1
START - 1
ERRS - 5

II. BACKGROUND

The Free Radiator Site is located at 12316 Greenville Highway, Lyman, Spartanburg County, South Carolina. The Site is approximately ½ acre in size and has operated as a radiator refurbishing shop since 1947. The same family has operated the business since inception. The current operator is Howard Free; however, the land is owned by his brother, James Free. The operator of the shop stated that waste radiator fluid was flushed and drained into a 15ft² sump located behind the shop. SCDHEC became aware of the Site through a citizen's complaint and collected soil samples at the Site on May 9, 2002. The total lead detected in these samples was reported as high as 160,000 ppm. SCDHEC subsequently referred the Site to the Emergency Response and Removal Branch (ERRB) for more action.

On July 1, 2003, EPA and EPA's Science and Ecosystems Support Division (SESD) personnel conducted a site assessment and field investigation of the Site. Based on the screening levels, soil samples were taken at the soil surface as well as eighteen inches below the surface depending on initial readings. Readings indicated that lead contamination in the soil behind and on both sides of the shop is present at levels well above the Region 9 Preliminary Remediation Goal (PRG) (750 to 1250 mg/kg lead in soil). Lead contamination in excess of the Region 9 PRG also appears to have migrated into the soil of the property adjacent to the radiator shop.

After the assessment, samples were submitted to be analyzed for lead and Toxic Characteristic Leaching Procedure (TCLP) lead only via a Contract Laboratory Program (CLP) laboratory. Sample results revealed the presence of lead ranging from 750 to 65,000 ppm, levels exceeding the removal action for lead in industrial areas.

III. ACTIVITIES DURING REPORTING PERIOD

The following actions were taken during the period of record:

1. EPA and ERRS contractor, mobilized to the site on April 14, 2004 to initiate removal activities.
2. ERRS performed site setup and hot zone delineations.
3. EPA, START, and ERRS representatives conducted a kickoff meeting.
4. ERRS began excavating lead contaminated soil greater than 895 ppm.
5. Soil TCLP was analyzed to determine Transportation and Disposal options.

IV. FUTURE ACTIONS

Actions to be taken during the next reporting period:

1. ERRS will continue to excavate lead contaminated soil.
2. START will continue to take confirmation samples with XRF.
3. START will take samples of stockpile for TCLP lead levels, total lead levels and correlation samples.
4. ERRS and START will test possible fill soil for cleanliness.
5. ERRS subcontractor will remove trees located in contaminated area.

V. COST TO DATE

START	\$ 7,000
ERRS	\$ 38,400